

AMENDMENTS

In the claims:

1. (Currently amended) An airfoil, comprising:
a first plurality of cooling holes positioned within the airfoil;
said first plurality of cooling holes comprising a turbulated section and a non-turbulated section; and
a second plurality of cooling holes positioned within the airfoil;
said second plurality of cooling holes comprising a turbulated section and a non-turbulated section;

wherein said turbulated section of said first plurality of cooling holes comprises a first length, said turbulated section of said second plurality of cooling holes comprises a second length; and wherein said first length is different from said second length;

wherein said first plurality of cooling holes comprises a first end and a second end and wherein said turbulated section extends from about thirty-five percent (35%) of the length of said first plurality of cooling holes from said first end to about seventy-five percent (75%) of the length of said first plurality of cooling holes from said first end.

2. (Original) The airfoil of claim 1, wherein said first plurality of cooling holes comprises five (5) cooling holes.

3. (Cancelled) The airfoil of claim 1, wherein said first plurality of cooling holes comprises a first end and a second end and wherein said turbulated section extends from about thirty-five percent (35%) of the length of said first plurality of cooling holes from said first end to about seventy-five percent (75%) of the length of said first plurality of cooling holes from said first end.

4. (Original) The airfoil of claim 1, wherein said turbulated section of said first plurality of cooling holes comprises a first diameter, wherein said non-turbulated section of said first plurality of cooling holes comprises a second diameter, and wherein said first diameter is larger than said second diameter.

5. (Previously presented) The airfoil of claim 4, wherein said turbulated section of said first plurality of cooling holes comprises a diameter of about 0.175 inches and said non-turbulated section of said first plurality of cooling holes comprises a diameter of about 0.135 inches.

6. (Original) The airfoil of claim 1, wherein said turbulated section of said first plurality of cooling holes comprises ribs therein.

7. (Original) The airfoil of claim 1, wherein said non-turbulated section of said first plurality of cooling holes comprises a plurality of non-turbulated sections.

8. (Original) The airfoil of claim 1, wherein said second plurality of cooling holes comprises two (2) cooling holes.

9. (Original) The airfoil of claim 1, wherein said second plurality of cooling holes comprises a first end and a second end and wherein said turbulated section extends from about fifty percent (50%) of the length of said second plurality of cooling holes from said first end to about seventy-five percent (75%) of the length of said second plurality of cooling holes from said first end.

10. (Original) The airfoil of claim 1, wherein said turbulated section of said second plurality of cooling holes comprises a first diameter, wherein said non-turbulated section of said second plurality of cooling holes comprises a second diameter, and wherein said first diameter is larger than said second diameter.

11. (Previously presented) The airfoil of claim 10, wherein said turbulated section of said second plurality of cooling holes comprises a diameter of about 0.165 inches and said non-turbulated section of said second plurality of cooling holes comprises a diameter of about 0.125 inches.

12. (Original) The airfoil of claim 1, wherein said non-turbulated section of said second plurality of cooling holes comprises a plurality of non-turbulated sections.

13. (Original) The airfoil of claim 1, further comprising a third plurality of cooling holes positioned within the airfoil, said third plurality comprising a non-turbulated section.

14. (Previously presented) The airfoil of claim 13, wherein said non-turbulated section of said third plurality of cooling holes comprises a diameter of about 0.115 inches.

15. (Original) The airfoil of claim 13, wherein said first plurality of cooling holes, said second plurality of cooling holes, and said third plurality of cooling holes comprise nine (9) cooling holes.

16. (Original) The airfoil of claim 15, further comprising a tenth cooling hole positioned therein.

17. (Previously presented) The airfoil of claim 16, wherein said tenth cooling hole comprises a diameter of about 0.08 inches.

18. (Original) An airfoil for use with a turbine, comprising:
a first end;
a middle portion;
a second end; and
a plurality of cooling holes extending through said first end, said middle portion, and said second end;
said plurality of cooling holes positioned in said first end according to the Cartesian coordinate values set forth in Table I; and
said plurality of cooling holes positioned in said middle portion according to the Cartesian coordinate values set forth in Table III.

19. (Previously presented) The airfoil of claim 18, wherein said plurality of cooling holes are positioned in said second end according to the Cartesian coordinate values set forth in Table II.

20. (Original) The airfoil of claim 18, wherein said airfoil comprises a second stage airfoil.